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CLAIM LISTINGS

Pursuant to 37 CFR §1.121(c), this listing of the claims, including the text of the claims, will serve to replace all prior versions of the claims, in the application.

Please amend claims 1-3, 8, 14 and 18-24 as follows:

1 1. (Currently Amended) A method for performing a call processing operation to manage
2 state information of access nodes in a high-speed wireless data system, comprising the steps of:

3 when an access node coupled to a wireless private network makes a request for a call
4 connection with another access node coupled to the wireless private network, carrying out a call
5 connection between the access nodes, providing a high-speed wireless data service for the access
6 nodes, and carrying out a call connection release after completing the high-speed wireless data
7 service; [[and]]

8 updating state information of the access nodes according to the call connection and
9 connection release between the access nodes, the state information indicating an idle state or a busy
10 state of the access nodes; and

11 transmitting the state information of the access nodes to a public network in response to a
12 request for the state information of the access nodes by the public network.

1 2. (Currently Amended) A method for performing a call processing operation to manage
2 state information of access nodes in a high-speed wireless data system, comprising the steps of:

3 when an access node coupled to a wireless private network makes a request for a call

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4 connection with another access node coupled to the wireless private network, carrying out a call
5 connection between the access nodes and providing a high-speed wireless data service for the access
6 nodes;

7 updating state information of the access nodes to busy state information;

8 when the high-speed wireless data service for the access nodes is completed, carrying out a
9 call connection release; [[and]]

10 updating the state information of the access nodes to idle state information according to the
11 call connection release; and

12 transmitting the state information of the access nodes to the public network in response to
13 a public network requesting the state information of the access nodes.

1 3. (Currently Amended) A method for performing a call processing operation to manage
2 state information of access nodes in a high-speed wireless data system, comprising the steps of:

3 when an access node coupled to a wireless private network makes a request for a call
4 connection with another access node coupled to the wireless private network, allowing a private
5 access network controller to carry out a call connection between the access nodes and to provide a
6 high-speed wireless data service for the access nodes;

7 allowing the private access network controller to request that state information of the access
8 nodes be updated;

9 allowing a data location register to update the state information of the access nodes to busy
10 state information according to a state information update request;

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11 when the high-speed wireless data service for the access nodes is completed, carrying out a
12 call connection release between the access nodes and allowing the private access network controller
13 to request that the state information of the access nodes be updated; [[and]]

14 allowing the data location register to update the state information of the access nodes to idle
15 state information according to another state information update request; and

16 allowing the data location register to transmit the state information of the access nodes to a
17 public network in response to a request for the state information of the access nodes by the public
18 network.

1 4. (Original) The method of claim 3, with the data location register storing the information
2 associated with the access node requesting for the call connection being equal to the information
3 associated with the other access node.

1 5. (Original) The method of claim 4, with the private access network controller and the data
2 location register being configured to being based on an Internet protocol.

1 6. (Original) The method of claim 5, with the private access network controller sending a
2 state information update request message including current state information of the originating
3 access node and the terminating access node to the data location register.

1 7. (Original) The method of claim 5, with the private access network controller sending a

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2 request message indicating the state information of the originating access node and the terminating
3 access node to be updated to busy state information and the data location register searching for the
4 subscriber information upon receiving the state information update request and updating the access
5 node state information to busy state information.

1 8. (Currently Amended) A wireless data system, comprising:
2 a first access node receiving a first network service;
3 a second access node receiving a second network service;
4 a first private access network transceiver system setting up a session when the first access
5 node moves within the wireless service area of the first private access network transceiver;
6 a second private access network transceiver system setting up a session when the second
7 access node moves within the wireless service area of the second private access network transceiver;
8 [[and]]
9 a private access network controller carrying out a call connection between the access nodes
10 and to provide data service for the first and second access nodes when the first access node makes
11 a request for a call connection with the second access node coupled to the first network service and
12 the private access network controller requesting state information of the first and second access
13 nodes to be updated, the state information indicating an idle state or a busy state of the access nodes;
14 and
15 a data location register transmitting the state information of the access nodes to a public
16 network in response to a request for the state information of the access nodes by the public network.

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1 9. (Original) The system of claim 8, further comprising a data location register updating the
2 state information of the access nodes to busy state information according to a state information
3 update request.

1 10. (Original) The system of claim 9, with the private access network controller requesting
2 that the state information of the access nodes be updated and carrying out a call connection release
3 between the access nodes when the data service for the access nodes is completed.

1 11. (Original) The system of claim 10, with the data location register updating the state
2 information of the access nodes to idle state information according to another state information
3 update request.

1 12. (Original) The system of claim 11, with the first network service being a wireless private
2 network.

1 13. (Original) The system of claim 12, with the second network service being a public land
2 mobile network.

1 14. (Currently Amended) The system of claim 12, with the second network service being
2 [[a]] the public network.

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1 15. (Original) The system of claim 13, with the data location register storing the information
2 associated with the first access node of the wireless private network equal to the information
3 associated with the second access node of the public land mobile network.

1 16. (Original) The system of claim 15, with the private access network controller and the
2 data location register being configured to being based on an Internet protocol.

1 17. (Original) The system of claim 16, with the private access network controller sending
2 a request message indicating the state information of the originating access node and the terminating
3 access node to be updated to busy state information and the data location register searching for the
4 subscriber information upon receiving the state information update request and updating the access
5 node state information to busy state information.

1 18. (Currently Amended) A computer-readable medium having computer-executable
2 instructions for performing a method for performing a call processing operation to manage state
3 information of access nodes in a high-speed wireless data system, comprising:

4 when an access node coupled to a wireless private network makes a request for a call
5 connection with another access node coupled to the wireless private network, carrying out a call
6 connection between the access nodes, providing a high-speed wireless data service for the access
7 nodes, and carrying out a call connection release after completing the high-speed wireless data

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8 service; [[and]]

9 updating state information of the access nodes according to the call connection and
10 connection release between the access nodes, the state information indicating an idle state or a busy
11 state of the access nodes; and

12 transmitting the state information of the access nodes to a public network in response to a
13 request for the state information of the access nodes by the public network.

1 19. (Currently Amended) A computer-readable medium having computer-executable
2 instructions for performing a method for performing a call processing operation to manage state
3 information of access nodes in a high-speed wireless data system, comprising:

4 when an access node coupled to a wireless private network makes a request for a call
5 connection with another access node coupled to the wireless private network, carrying out a call
6 connection between the access nodes and providing a high-speed wireless data service for the access
7 nodes;

8 updating state information of the access nodes to busy state information;

9 when the high-speed wireless data service for the access nodes is completed, carrying out a
10 call connection release; [[and]]

11 updating the state information of the access nodes to idle state information according to the
12 call connection release; and

13 transmitting the state information of the access nodes to the public network in response to
14 a public network requesting the state information of the access nodes.

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1 20. (Currently Amended) A computer-readable medium having stored thereon a data
2 structure for performing a call processing operation to manage state information of access nodes in
3 a high-speed wireless data system, comprising:

4 a first field containing data representing when an access node coupled to a wireless private
5 network makes a request for a call connection with another access node coupled to the wireless
6 private network, allowing a private access network controller to carry out a call connection between
7 the access nodes and to provide a high-speed wireless data service for the access nodes;

8 a second field containing data representing allowing the private access network controller to
9 request that state information of the access nodes be updated;

10 a third field containing data representing allowing a data location register to update the state
11 information of the access nodes to busy state information according to a state information update
12 request;

13 a fourth field containing data representing when the high-speed wireless data service for the
14 access nodes is completed, carrying out a call connection release between the access nodes and
15 allowing the private access network controller to request that the state information of the access
16 nodes be updated; [[and]]

17 a fifth field containing data representing allowing the data location register to update the state
18 information of the access nodes to idle state information according to another state information
19 update request; and

20 a sixth field containing data representing allowing the data location register to transmit the

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21 state information of the access nodes to a public network in response to a request for the state
22 information of the access nodes by the public network.

1 21. (Currently Amended) The method of claim 1, with said updating state information of the
2 access nodes accommodating a public network to recognize state information of [[a]] the private
3 network subscriber located in a private and public cell area by transmitting terminal state information
4 from the private network to the public network in a mobile communication system interworked with
5 the public and private networks.

1 22. (Currently Amended) The method of claim 2, further comprised of said updating state
2 information of the access nodes accommodating [[a]] the public network to recognize state
3 information of a private network subscriber located in a private and public cell area by transmitting
4 terminal state information from the private network to the public network in a mobile
5 communication system interworked with the public and private networks.

1 23. (Currently Amended) The computer-readable medium having computer-executable
2 instructions for performing a method for performing a call processing operation to manage state
3 information of access nodes in a high-speed wireless data system of claim 18, with said updating
4 state information of the access nodes accommodating [[a]] the public network to recognize state
5 information of a private network subscriber located in a private and public cell area by transmitting
6 terminal state information from the private network to the public network in a mobile

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7 communication system interworked with the public and private networks.

1 24. (Currently Amended) The computer-readable medium having computer-executable
2 instructions for performing a method for performing a call processing operation to manage state
3 information of access nodes in a high-speed wireless data system of claim 19, with said updating
4 state information of the access nodes accommodating [[a]] the public network to recognize state
5 information of a private network subscriber located in a private and public cell area by transmitting
6 terminal state information from the private network to the public network in a mobile
7 communication system interworked with the public and private networks.